

Motor vehicle shock absorber - has device to increase damping force as load on vehicle increases

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Abstract of DE3939485

The shock absorber of the suspension system of a motor vehicle has a cylinder (9) with a piston (8) which divides the cylinder (9) into two chambers (5,10). The upper chamber (5) is sealed by a spring-loaded disc (3) and the spring (2) functions as a volume compensating device. The damping force is generated by the restriction to flow of the hydraulic fluid through orifices (11) in the piston (8). The effective cross-sectional area of these orifices (11) is varied by small control pistons which tend to close the orifices (11) as the pressure of the hydraulic fluid increases due to an increase of load on the vehicle. USE - Motor vehicle shock absorbers.

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